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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.980,375	11/29/2001	Ze ^r ev Ganor	013/02472	1331
26418 7.	590 05.15.2003			
REED SMITH, LLP ATTN: PATENT RECORDS DEPARTMENT 599 LEXINGTON AVENUE, 29TH FLOOR			FXAMINER	
			BUDD, MARK OSBORNE	
NEW YORK,	NEW YORK, NY 10022-7650			PAPER NUMBER
			2834	

DATE MAILED: 05/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/980,375 Examiner	GANOR ET AL.				
1	Examiner 	Art Unit				
The MAILING DATE of this communication app		the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 mll apply and will expire SIX (6) MONTHS	be timely filed 2) days will be considered timely 3 from the mailing date of this communication				
1) Responsive to communication(s) filed on 25 F	ebruary 2003 .					
2a)☐ This action is FINAL . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowated closed in accordance with the practice under Disposition of Claims	ance except for formal matters Ex parte Quayle, 1935 C.D. 1	s, prosecution as to the merits is 1, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-4,6,7 and 10-54</u> is/are pending in the application.						
4a) Of the above claim(s) 32-42 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6,7,10-31 and 43-54</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on		proved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:						
1. Certified copies of the priority documents						
2. Certified copies of the priority documents						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 11	9(e) (to a provisional application).				
 a) The translation of the foreign language proving 15) Acknowledgment is made of a claim for domestic 	visional application has been	received.				
Attachment(s)	33					
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	Interview Sumn Solution Sol	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				
S. Patent and Trademark Office						

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4, 6, 7, 10-31 and 43-54 are rejected under 35 U.S.C. 102(a) as being anticipated by Kasuga (063) or Inio (769).

Both reference teach a stack of piezoelectric elements, four quadrant electrodes on one surface and a single large counter electrode on the second side. The electrodes are existed so as to produce elliptical movement of an output member fixed on a short side of the rectangular stack. Note the effective filing date of Kasuga is 5-14-98, and for fino is 8-5-99, both prior to applicants earliest foreign priority date.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 7, 10-31 and 43-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Diefenbach, O'Brien or Zumeris (140) in view of Saigoh (Jap J. Appl. Phys Vol. 34) (cited by applicant).

Each of Diefenbach, Zumeris and O'Brien teach a single layer peizoelecdtric motor, with four quadrant electrodes on one side and a single large electrode on the other side. The motor is

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driven to produce an elliptical output from a member attached to a short side of the rectangular element. Saigoh teaches using multiple layers of piezo elements to reduce the necessary drive voltage for any given output magnitude. Thus, for at least this reason it would have been obvious to one of ordinary skill in the art to provide the motors of O'Brien, Zumeris (140) or Diefenbach as multi layer devices.

Further, cited of interest is Zumeris (421).

Budd/ds

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